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The Academy of Applied Science (AAS), Concord, New Hampshire, utilized funds provided by the Office of Naval Research, Arlington, VA, under Grant N00014-03-1-0549 to support the Naval Science Awards Program (NSAP). This effort included:

- (1) undergraduate scholarship payments to colleges and universities being attended by ONR's science fair scholarship recipients;
- (2) the acquisition of educational recognition awards for students that are participating in NSAP venues; and
- (3) expenses of educational outreach activities.

The NSAP provides recognition, incentives, and scholarships to precollege students who engage in nationwide regional and state science fairs. The NSAP endeavor is aimed at increasing students' awareness of ONR's and the Navy's scientific research, in general, as well as encouraging the future pool of trained talent prepared to conduct research and development vital to our nation and to the Naval Research Enterprise.

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Abstract

The Naval Science Awards Program (NSAP) is intended to increase students' awareness of ONR's and the Navy's scientific research, in general, as well as helping to foster a mutually beneficial relationship between talented students and the Naval Research Enterprise (NRE). The Academy of Applied Science (AAS) supported NSAP by assuring that pre-college students who engaged in science fairs were provided with appropriate recognition, incentives, and scholarships designed to increase students' awareness of ONR's and the Navy's scientific research, in general, as well as encouraging the future pool of trained talent prepared to conduct research and development vital to our nation and to the NRE.

Description of effort

The Academy of Applied Science (AAS), Concord, New Hampshire, provided managerial and administrative support of the Naval National Science Awards Program (NSAP) under separate contract with the Office of Naval Research, Arlington, Virginia. This report summarizes the activities conducted under the grant for the period 23 February 2003 - through 30 September 2007. A total \$942,027.00 was expended in support of NSAP activities. The annual fiscal year breakdown by budget category is reported below.

| Grant – Budget category | Expended 10/1/02- 9/30/03 | Expended 10/1/03- 9/30/04 | Expended 10/1/04- 9/30/05 | Expended 10/1/05- 9/30/06 | Expended 10/1/06- 9/30/07 |
|--|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|
| 1. Scholarships – undergraduate scholarship payments to colleges and universities being attended by ONR's science fair scholarship recipients | \$100,000 | \$111,000 | \$ 97,666 | \$131,666 | \$132,666 |
| 2. Educational recognition awards – For presentation to students who participated in NSAP venues | 42,057 | 36,923 | 43,675 | 46,210 | 38,372 |
| 3. Outreach – Specific NSAP activities that may increase awareness among students and teachers of the opportunities within the Naval Research Enterprise (NRE). | 26,146 | 50,856 | 25,042 | 42,522 | 17,226 |
| Total grant expended, by FY | \$168,203 | \$198,779 | \$166,383 | \$220,398 | \$188,264 |

Specific activities are reported in the subsequent pages of this report under the categories of Scholarships, Educational Recognition Awards, and Outreach.

Scope of effort

NSAP includes Navy and Marine Corps participation in approx. 350 regional and state science and engineering fairs held nationwide, the National Ocean Sciences Bowl, and the Naval Sea Cadets Program. Approximately 350 regional and state science fairs annually participate in NSAP and register their request for affiliation with NSAP at an ONR website. Once registered, ONR arranges for qualified Navy and Marine Corps personnel within commuting distance of a fair to attend and serve as judges and awards presenters.

Presently over 2,000 eligible students who present their research in nationwide regional and state science fairs receive Navy and Marine Corps recognition and awards on behalf of ONR. Junior awards are presented to students in Grades 6 – 8 and senior awards are presented to students in Grades 9 – 12.

An additional 1,200 senior award recipients (or high school students) receive an educational recognition award valued at \$50.00 for finalists from regional science fairs and \$75.00 for finalists from state science fairs. This requires the senior award recipient to follow-up with the Academy to claim the award. This direct contact allows the Academy to establish relationships with the 1,200 senior award recipients from the regional and state science fairs.

Progressing from the regional and state science fairs, student winners attend the annual International Science & Engineering Fair (ISEF). The Navy and Marine Corps judging panel attend ISEF to select twenty-two (22) scholarship winners from a pool of approximately 800 students.

The total NSAP scholarship award to each student is \$8000, payable at \$2,000 per year for each of four years. Students that have participated in a team project at the ISEF will each receive \$1,000 for four years. Beginning in FY 2007, NSAP scholarships were awarded to each of 17 category winners, to 3 projects demonstrating research of Navy relevance, and to 2 students who have completed a team project. From FY 2003 – FY 2006, NSAP scholarships were awarded to each of 14 category winners, up to 2 projects demonstrating research of Navy relevance, and to 2 students who completed a team project.

The Academy of Applied Science administers the scholarship awards payable to the student's institution of higher learning. Scholarships are contingent upon the student meeting a specified GPA requirement and majoring in a STEM discipline.

Scholarships Reported annually to ONR under separate contract agreements are all scholarship payables by fiscal year. Attachment 1 presents a summary of all scholarships awarded by ONR during the period of this grant. This report includes date of award, name of recipient, college or university of enrollment, and payment due dates.

During this reporting period, a total 98 students were awarded NSAP scholarships at the annual International Science & Engineering Fair (ISEF). An additional 42 students received NSAP scholarships, with this group selected under a previous ONR program.

Scholarship payment is based upon the students' date of matriculation. A review of scholarships awarded, paid, and remaining by FY follows:

- **FY 2003:** AAS administered scholarship payments to a total fifty (50) NSAP student recipients at a total \$8,000 per recipient, or \$2,000 per year for each of four years. Among the total 50 students, 39 were NSAP recipients in past years and 11 were NSAP recipients in FY 2003.
- **FY 2004:** The AAS administered scholarship payments to a total 56 NSAP student recipients at a total \$8,000 per recipient, or \$2,000 per year for each of four years. Among the total 56 students, 42 were NSAP recipients in past years and 14 were NSAP recipients in FY 2004.
- **FY 2005:** AAS administered scholarship payments to a total fifty (50) NSAP student recipients at a total \$8,000 per recipient, or \$2,000 per year for each of four years. Among the total 50 students, 43 were NSAP recipients in past years and 7 were NSAP recipients in FY 2005.
- **FY 2006:** AAS administered scholarship payments to a total sixty-six (66) NSAP student recipients at a total \$8,000 per recipient, or \$2,000 per year for each of four years. Among the total 66 students, 51 were NSAP recipients in past years and 15 were NSAP recipients in FY 2006.
- **FY 2007:** AAS administered scholarship payments to a total sixty-eight (68) NSAP student recipients at a total \$8,000 per recipient, or \$2,000 per year for each of four years. Among the total 68 students, 60 were NSAP recipients in past years and 8 were NSAP recipients in FY 2007.
- **FY 2008 and beyond:** A total \$314,000.00 in NSAP scholarships are due from 2008 – 2013 to approximately 60 students who were awarded scholarships during the current grant.

Outreach – A total \$161,972.00 has been expended during this reporting period in support of NSAP outreach efforts. Primary support was provided to publicize NSAP to nationwide, community based regional and state science fairs. Brochures and mailings were the primary vehicles used to publicize NSAP to approximately 360 affiliated regional and state science fairs held each year. Materials distributed to organizers of science fairs included brochures describing ONR's outreach programs to encourage, stimulate and support research endeavors by undergraduate and graduate students, correspondence describing the goals and objectives of NSAP, certificates of achievement signed by the

Chief of Naval Research and the Vice Chief of Naval Research and for presentation to NSAP student recipients, and forms to publish the procedures by which NSAP student recipients could select and claim the NSAP educational recognition award, or gift certificate.

Other outreach activities supported under the NSAP grant included the below items as directed and coordinated in cooperation with the ONR Project Manager.

1. Acquisition and Distribution of Specialty Award Items for ONR use in recognizing both contributing volunteers and participating students. These items have included:

- 22 Lone sailors for presentation to 22 NSAP scholarship winners, International Science & Engineering Fair (ISEF) (Annual expenditure)
- ONR medallions for presentation to NSAP high school and junior high students participating in a total 338 regional and state science fairs held throughout the United States. (Annual expenditure)
- ONR lapel pins for ONR distribution at ISEF and the National Science Teachers Association annual convention. (Annual expenditure)
- ID badge holders for ISEF judges and JSHS National participants. (Annual expenditure)
- Tote bags for JSHS National participants.
- Travel kits imprinted with the ONR logo and for distribution to volunteers participating in the National Ocean Sciences Bowl (NOSB) (Annual expenditure through FY 2006)
- Reception for ISEF judges. (Annual expenditure through FY 2006)
- Exhibit for ONR participation at the National JSHS symposium and other youth science conferences.
- Postcards for use by Navy and Marine Corps personnel serving as judges of student projects. (Annual expenditure)
- Award certificates for NSAP high and junior high science fair recipients.
- Navy pens (269 packets /12 pens each) were mailed to 230 judges to distribute to NSAP science fair participants. (FY 06 only)
- Director's meeting at the 2005 JSHS National in San Diego
- Photography at ISEF

2. Attended the International Science and Engineering Fair (ISEF) to provide support assistance to ONR in program administration and in manning the ONR exhibit. (FY 2003 only)

3. Coordinated with the National Ocean Sciences Bowl and the Scripps Institution of Oceanography hosted Oceans 2003 Conference.

4. Creation of a "prototype" education program for ONR targeting of Advanced Placement science and mathematics teachers and students in high school. The prototype is under development by Lifetime Learning Systems, Inc., a division of the Weekly Reader Corporation, for the Academy of Applied Science on behalf of ONR. (FY 2006 only)

5. Development and production of an exhibit to publicize the pre-college youth science activities administered by ONR.

6. Developed briefs for Navy and Marine Corps personnel supporting NSAP and other pre-college youth science activities. Coordinated with appropriate reserve officers and ONR to develop and distribute.

Educational Recognition Awards. A total \$207,237.00 was expended during this reporting period. Navy and Marine Corps personnel annually participate in affiliated regional and state science fairs as judges and awards presenters. These military personnel publicly recognize eligible NSAP student recipients at the awards ceremony of each regional or state science fair and present an "Awards Verification" form to claim the NSAP educational recognition award. The NSAP educational recognition awards are gift certificates valued at \$75.00 for state science fair award recipients and \$50.00 for regional science fair award recipients.

The AAS distributed a total 3,576 educational recognition awards to the home address of NSAP student award recipients during the reporting period of this grant. Total awards by FY are:

| | |
|---------|------------------------------|
| FY 2003 | Total 544 awards distributed |
| FY 2004 | Total 694 awards distributed |
| FY 2005 | Total 845 awards distributed |
| FY 2006 | Total 758 awards distributed |
| FY 2007 | Total 735 awards distributed |

Deliverables. Ongoing follow-up with NSAP regional student recipients and ISEF scholarship recipients resulted in the gathering of information on students' educational and career achievements in STEM. Collected data was entered into AAS databases and listings and reported to ONR under the separate contract. Resulting from the interaction with NSAP student recipients, approximately 3,200 students expressed an interest in receiving further information on research opportunities as well as undergraduate and graduate level research experiences within the Naval Research Enterprise.

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| Åwård Year | Last Name | First | College | due 2003 | due 2004 | due 2005 | due 2006 | due 2007 | due 2008 | due 2009 | due 2010 | due 2011 | due 2012 | due 2013 |
|---------------|---------------------|------------|---------------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 2001 | Cox | Geneya | Southern Utah University | 2,000 | | | | 2,000 | | | | | | |
| 2001 | Lisanti | Mariangela | Harvard University | 2,000 | 2,000 | | | | | | | | | |
| 2001 | Millet | Lacey Ann | Centenary College of Louisiana | 2,000 | 2,000 | | | | | | | | | |
| 2001 | Murti | Suvarna | Rhodes College | 2,000 | 2,000 | 2,000 | 2,000 | | | | | | | |
| 2001 | Myers | Terri | Purdue University | 2,000 | 2,000 | | | | | | | | | |
| 2001 | Patterson | Ryan | University of Colorado Boulder | 2,000 | 2,000 | 2,000 | | | | | | | | |
| 2001 | Rothschild | Jeremiah | University of Maryland | 4,000 | | | | | | | | | | |
| 2001 | Schuh | Scott | Winona State University | 2,000 | 2,000 | | | | | | | | | |
| 2001 | Song | Francis | Harvard University | 2,000 | 2,000 | 2,000 | | | | | | | | |
| 2002 | Antonioli | Alexandra | Yale University | 0 | 4,000 | | 4,000 | | | | | | | |
| 2002 | Cheng | Wayne | Cornell University | 2,000 | 2,000 | 2,000 | | | | | | | | |
| 2002 | Cossairt | Brandi | California Institute of Technology | 2,000 | 2,000 | 2,000 | | | | | | | | |
| 2002 | Goodrich | Kristen | University Of Miami | 2,000 | 2,000 | 2,000 | | | | | | | | |
| 2002 | Jain | Aman | University of Texas - Austin | 2,000 | 2,000 | | | | | | | | | |
| 2002 | Knight | Mark | Carleton College | 2,000 | 2,000 | 2,000 | | | | | | | | |
| 2002 | McGaha | Rebecca | Washington University | | 2,000 | 2,000 | | | | | | | | |
| 2002 | Mergler | Natalie | St. Louis University | 2,000 | 2,000 | 2,000 | 2,000 | | | | | | | |
| 2002 | Morrow | Matthew | Indiana University | 2,000 | 2,000 | 2,000 | | | | | | | | |
| 2002 | Norwood | Emily | Washington University in St. Louis | 2,000 | 2,000 | 2,000 | | | | | | | | |
| 2002 | Rozenblyum | Nikita | Harvard University | 2,000 | 2,000 | 2,000 | | | | | | | | |
| 2002 | Sinha | Naveen | Stanford University | 2,000 | 2,000 | 2,000 | 2,000 | | | | | | | |
| 2002 | Tewksbury | Carolyn | Smith College | 2,000 | 2,000 | 2,000 | 2,000 | | | | | | | |
| 2003 | (Gutman) Brammer | Sarah | West Liberty State University | | | 1,017 | 4,983 | 2,000 | | | | | | |
| 2003 | DeObaldia | Maria | Harvard University | | 2,000 | 2,000 | 2,000 | 2,000 | | | | | | |
| 2003 | Drury | Hollilyne | University of Utah | 1,000 | 1,000 | 1,000 | | | | | | | | |
| 2003 | Glukhovsky | Lisa | Princeton University | | 2,000 | 2,000 | 2,000 | | 2,000 | | | | | |
| 2003 | Grover | Vaishali | Northwestern University | | | 2,000 | 2,000 | 2,000 | 2,000 | | | | | |

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Scholarship Payments and Obligations

| Award Year | Last Name | First | College | due 2003 | due 2004 | due 2005 | due 2006 | due 2007 | due 2008 | due 2009 | due 2010 | due 2011 | due 2012 | due 2013 |
|------------|---------------|----------------|--|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 2004 | Pizer | Michael | Princeton University | | | | 2,000 | 2,000 | 2,000 | 2,000 | | | | |
| 2004 | Ramachandran | Reshma | Brown University | | | 2,000 | 2,000 | 2,000 | 2,000 | | | | | |
| 2004 | Ramjeawan | Khaivchandra | George Washington University | | | | 2,000 | | 4,000 | | | | | |
| 2004 | Sloyer | Michael | Duke University | 2,000 | 2,000 | 2,000 | 2,000 | 2,000 | | | | | | |
| 2004 | Sparling | Brian | MIT | | 2,000 | 2,000 | 2,000 | 2,000 | | | | | | |
| 2004 | Verlinden | Christopher | United States Coast Guard Academy | | 1,000 | | 2,000 | 1,000 | | | | | | |
| 2004 | Yen | Christopher | Harvard University | | 2,000 | 2,000 | 2,000 | 2,000 | | | | | | |
| | (Van Prooyen) | | | | | | | | | | | | | |
| 2005 | Hunter | Sheila Marie | Portland State University | | | | 2,000 | 2,000 | 2,000 | 2,000 | | | | |
| 2005 | Abdulrasool | Ameen | University of Illinois - Urbana, Champaign | | | 2,000 | 2,000 | 2,000 | 2,000 | | | | | |
| 2005 | Ableman | Genna | Harvard University | | | 1,000 | 1,000 | 1,000 | 1,000 | | | | | |
| 2005 | Ash | Lesley | University of Arizona | | | 2,000 | 2,000 | 2,000 | 2,000 | | | | | |
| 2005 | Barsky | Maya | Brown University | | | 1,000 | 1,000 | 1,000 | 1,000 | | | | | |
| 2005 | Burger | Megan | Rice University | | | 2,000 | 2,000 | 2,000 | 2,000 | | | | | |
| 2005 | Cross | Jonathan | Duke University | | | | 2,000 | 2,000 | 2,000 | 2,000 | | | | |
| 2005 | Daly | Ronald Terik | Brigham Young University | | | | | 2,000 | 2,000 | 2,000 | 2,000 | | | |
| 2005 | Denduluri | Aditya Krishna | MIT | | | 2,000 | 2,000 | 2,000 | 2,000 | | | | | |
| 2005 | Hagen | John Thomas | Cedarville University | | | | 2,000 | 2,000 | 2,000 | 2,000 | | | | |
| 2005 | MacGregor | Meredith Ann | Harvard University | | | | | 2,000 | 2,000 | 2,000 | 2,000 | | | |
| 2005 | Minchert, III | Robert | West Virginia University | | | | 2,000 | 2,000 | 2,000 | 2,000 | | | | |
| 2005 | Mirchandani | Srishti Deepak | Washington University | | | | 2,000 | 2,000 | 2,000 | 2,000 | | | | |
| 2005 | Moore, IV | John Pease | University of Florida | | | | 2,000 | 2,000 | 2,000 | 2,000 | | | | |
| 2005 | Mousa | Sarah | Princeton University | | | | 2,000 | 2,000 | 2,000 | 2,000 | | | | |
| 2005 | Nixon | Farre | MIT | | | | 2,000 | 2,000 | 2,000 | 2,000 | | | | |

NSAP Grant N00014-03-1-0549
Scholarship Payments and Obligations

| Award Year | Last Name | First | College | due 2003 | due 2004 | due 2005 | due 2006 | due 2007 | due 2008 | due 2009 | due 2010 | due 2011 | due 2012 | due 2013 |
|------------|-------------------|--------------------|---|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 2005 | Ramanlal | Nimish Pradipkumar | MIT | | | | 2,000 | 2,000 | 2,000 | 2,000 | | | | |
| 2005 | Segal | Michael | Harvard University | | | 2,666 | 2,666 | 2,666 | | | | | | |
| 2005 | Sidman | Adam | Harvard University | | | | 2,000 | 2,000 | 2,000 | 2,000 | | | | |
| 2006 | Bionta | Mina | Stanford University | | | | 2,000 | 2,000 | 2,000 | 2,000 | | | | |
| 2006 | Blumenthall | Daniel | Northwestern University | | | | | 4,000 | 2,000 | 2,000 | | | | |
| 2006 | Brenner | Nicole | SUNY-Stony Brook | | | | 2,000 | 2,000 | 2,000 | 2,000 | | | | |
| 2006 | Brinkopf | Mary | Boston College | | | | | 2,000 | 2,000 | 2,000 | 2,000 | | | |
| 2006 | Fenska | Kristen | Northeastern University | | | | 2,000 | 2,000 | 2,000 | 2,000 | | | | |
| 2006 | Fischell | Erin | Cornell University | | | | 2,000 | 2,000 | 2,000 | 2,000 | | | | |
| 2006 | Ginsbach | Michael | North Dakota University | | | | 2,000 | 2,000 | 2,000 | 2,000 | | | | |
| 2006 | Harrison | Brett | Harvard University | | | | 2,000 | 2,000 | 2,000 | 2,000 | | | | |
| 2006 | Holz | David | Harriet L Wilkes Honors College, Florida Atlantic | | | | 2,000 | 2,000 | 2,000 | 2,000 | | | | |
| 2006 | Hope | Elyse | Stanford University | | | | 2,000 | 2,000 | 2,000 | 2,000 | | | | |
| 2006 | Horton | Douglas | Colorado College | | | | | 2,000 | 2,000 | 2,000 | 2,000 | | | |
| 2006 | Niedbalski | Sara | University of Notre Dame | | | | | 2,000 | 2,000 | 2,000 | 2,000 | | | |
| 2006 | Polepeddi | Lalith | Northwestern University | | | | 1,000 | 1,000 | 1,000 | 1,000 | | | | |
| 2006 | Polmear | Michael | University of Colorado-Boulder | | | | 1,000 | 1,000 | 1,000 | 1,000 | | | | |
| 2006 | Schwank | Benjamin | Harvard University | | | | 2,000 | 2,000 | 2,000 | 2,000 | | | | |
| 2006 | Solomon | Justin | Stanford University | | | | 2,000 | 2,000 | 2,000 | 2,000 | | | | |
| 2006 | Wilson | Allison | Iowa State University | | | | 2,000 | 2,000 | 2,000 | 2,000 | | | | |
| 2006 | Yan | Winston | Harvard University | | | | 2,000 | 2,000 | 2,000 | 2,000 | | | | |
| 2006 | Zelnio | Holly | Wright State University | | | | 2,000 | 2,000 | 2,000 | 2,000 | | | | |
| 2007 | Baskaran | Shruthi | | | | | | | 2,000 | 2,000 | 2,000 | 2,000 | | |
| 2007 | Bick | Emily | | | | | | | | 2,000 | 2,000 | 2,000 | 2,000 | |
| 2007 | Carvell | Melissa | | | | | | | | 2,000 | 2,000 | 2,000 | 2,000 | |
| 2007 | Cronkite-Ratcliff | Bryce | | | | | | | | | | | | |
| 2007 | Crook | Alexandra | University of Utah | | | | | 2,000 | 2,000 | 2,000 | 2,000 | 2,000 | 2,000 | |
| 2007 | Delgado | Eric | | | | | | | 2,000 | 2,000 | 2,000 | 2,000 | | |

NSAP Grant N00014-03-1-0549
Scholarship Payments and Obligations

| Award Year | Last Name | First | College | due 2003 | due 2004 | due 2005 | due 2006 | due 2007 | due 2008 | due 2009 | due 2010 | due 2011 | due 2012 | due 2013 |
|-------------------|------------------|--------------|---------------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| IS | Nagarkatti | Nisha | Harvard University | 2,000 | 0 | 0 | | | | | | | | |
| IS | Parker | Adam | Case Western Reserve University | 2,000 | 0 | 0 | | | | | | | | |
| IS | Reynolds | Patrick | University of Arkansas | 2,000 | 0 | 0 | | | | | | | | |
| IS | Schamel | Jay | University of Alaska Fairbanks | 2,000 | 2,000 | 0 | | | | | | | | |
| IS | Shapiro | Joshua | College of William & Mary | 2,000 | 0 | 0 | | | | | | | | |
| IS | Steinkruger | Corita | Nebraska Wesleyan | 2,000 | | | | | | | | | | |
| IS | Wiersma | Helen | University of the South | 2,000 | 0 | 0 | | | | | | | | |
| IS | Young | Christen | Stanford University | 2,000 | | | | | | | | | | |
| Totals | | | | 100,000 | 110,000 | 95,683 | 134,649 | 132,666 | 116,000 | 104,000 | 52,000 | 26,000 | 14,000 | 2,000 |